Instructor: Dr. Betul Orcan-Ekmekci
Time: MWF 2:45PM - 3:40PM CTE
Email: orcan@rice.edu
Class Webpage: Look for MATH 424 Sp2021 on Canvas

This course will be delivered in Dual Mode in Spring 2021.

I am very excited about offering this course in this semester. PDEs and their characterization and analysis have a wide range of scope, and with Math 423/513, you started to observe the depth of this theory. We'll start with some linear PDEs, then try to relate the harmonic analysis knowledge to elliptic and parabolic equations. Then Nonlinearity will start, after getting exposed to some classical nonlinear DEqns, such as Hamilton Jacobi Eqns, we'll continue with Fluid Dynamics. If the time allows, we'll study Free Boundary Value Problems.

In this course, you'll be generating your notes, we'll work together to analyze and understand PDEs.

Textbook: There is no required textbook, we'll be reading articles, and searching for specific PDEs, so we'll put together our own notes through this course.

Homework: Written HWs problems should be submitted(uploaded) to Canvas. 1 or 2 written HW sets will be assigned each week. The homework is not pledged and you can collaborate with other students in the class.

Late homework assignments will not be accepted for ANY reason –
Instead, two lowest **"paper-assignment" grade will be dropped.**

The no late homework policy is iron clad. There will be roughly 20 assignments. These numbers mean that the only fair policy on late homework is as above.

Exams:

There will be one midterm test during the semester and a comprehensive final exam. Midterm Exam will be during the days of March 1st-10th. Midterm Exam is 2-hours length.

Final exam: Final Exam will be determined by Registrar office.

If an exam conflicts with a holiday you observe, please let me know before the end of the first week of classes.

Grades: Your HWs will count as 40% of your final grade and 30% Midterm, 30% Final.

Expectations: I expect you to complete assignments on a daily basis and inform me about your process. It is your responsibility to keep informed of any announcements, syllabus adjustments, or policy changes made during the semester. All announcements will be posted on the website.
Disability Support: If you have a documented disability that may affect academic performance, you should: 1) make sure this documentation is on file with Disability Resource Center (Allen Center, Room 111 / adarice@rice.edu / x5841) to determine the accommodations you need; and 2) meet with me to discuss your accommodation needs.

Title IX statement: Sexual Misconduct in Online Course Communities Rice's Sexual Misconduct Policy applies in all Rice online courses. Examples of sexual misconduct behavior in an online environment are text-based or image-based discussion posts of a sexual nature that are offensive or repetitive, unwelcome contact in or outside the course, etc. If you experience sexual misconduct in this course or outside of it, contact your instructor, and/or the Office of Sexual Violence Prevention and Title IX Support via email titleixsupport@rice.edu or call (713) 348-3311.

The Dept of Mathematics supports an inclusive learning environment where diversity and individual differences are understood, respected, appreciated, and recognized as a source of strength. At the most basic level, we expect all participants in mathematics courses to treat each other and their instructors with courtesy and respect, and to adhere to the mathematics department standards of collegiality, respect, and sensitivity as well as the Rice Student Code of Conduct. Discrimination, harassment, and bullying will not be tolerated. If you think you have experienced or witnessed unprofessional or antagonistic behavior, then the matter should be brought to the attention of the instructor and/or department chair. The Ombudsperson is also available as an intermediate, informal option, and contacting them will not necessarily trigger a formal inquiry.